

1 **Amendment to the Claims**

2 **In the Claims:**

3 Please amend Claims 1, 4-6, 11-15, 17, 19-22, and 26 as follows:

4 1. (Currently Amended) An accessory for use with one of an existing external antenna system
5 and an existing internal antenna system of a wireless device to provide an increased range and to
6 control directional characteristics of wireless signals that are transmitted and received by the wireless
7 device, comprising:

8 (a) a support adapted to be removably coupled and physically mounted to a wireless
9 device at a predefined distance relative to a wavelength of the wireless signals, from ~~at least one of an~~
10 ~~existing internal antenna system and an existing external antenna system thereof, where the external~~
11 ~~antenna system includes an external antenna that is physically mounted on and physically supported by~~
12 ~~the wireless device; and~~

13 (b) a conductive material disposed on the support and extending over an area of
14 sufficient size to define a conductive surface, so that when the accessory is disposed adjacent to ~~at least~~
15 ~~one of an existing internal antenna system and an existing external antenna system of a wireless device,~~
16 the conductive surface serves as a reflector for wireless signals to enhance at least one of a range and
17 directionality of wireless signals transmitted or received by the wireless device, thereby enabling the
18 range and directionality of wireless signals that are transmitted and received, to be enhanced by the
19 accessory, wherein the support is formed and thereby adapted to be removably coupled and physically
20 mounted to the wireless device in a configuration selected from the group consisting of:

21 (i) a first configuration in which the support is adapted to removably mount
22 on and be fully supported by an existing external antenna that comprises the existing antenna system,
23 where the existing external antenna is directly affixed to and extends from the wireless device, and in
24 which the support is formed so that the conductive material is disposed at the predefined distance from
25 the existing external antenna when the support is mounted on the existing external antenna; and

26 (ii) a second configuration in which the support is adapted to couple with a
27 housing of a wireless device and to thereby orient a disposition of each of the wireless device, the
28 conductive material, and the existing antenna system, so that the conductive material is disposed at the
29 predefined distance from the existing antenna system.

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1 2. (Original) The accessory of Claim 1, wherein the conductive material defines a surface
2 extending over the support.

3 3. (Original) The accessory of Claim 2, wherein the surface defined by the conductive
4 material is generally planar.

5 4. (Currently Amended) The accessory of Claim 2, wherein the surface defined by the
6 conductive material is curved in a shape selected so that when the accessory is disposed at the
7 predefined distance from ~~at least one of an existing internal antenna system and~~ an existing external
8 antenna system, wireless signals are directed in a desired pattern by the conductive material.

9 5. (Currently Amended) The accessory of Claim 2, wherein the surface defined by the
10 conductive material extends over an area sufficient in size so that the surface is disposed at the
11 predefined distance from a plurality of antennas comprising ~~an existing internal antenna system and~~
12 an existing external antenna system of a wireless device.

13 6. (Currently Amended) The accessory of Claim 1, further comprising a clip that is sized and
14 shaped so as to couple the accessory to an antenna of a wireless device, wherein the antenna
15 comprises an existing external antenna ~~system~~ of the wireless device.

16 7. (Original) The accessory of Claim 6, wherein the clip includes a director disposed on a
17 side of the clip opposite from the support and sized and shaped to direct a wireless signal produced or
18 received by a wireless device.

19 8. (Previously Presented) The accessory of Claim 1, wherein the support comprises a base
20 that is sized and shaped so as to couple the accessory to a housing of a wireless device.

21 9. (Original) The accessory of Claim 1, further comprising a fixture for hanging the
22 accessory and a wireless device from a vertical surface.

23 10. (Original) The accessory of Claim 1, wherein the predefined distance comprises about a
24 quarter wavelength of a wireless signal produced or received by a wireless device.

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1 11. (Currently Amended) A method of increasing at least one of a range and a directionality
2 of a wireless device, comprising the steps of:

3 (a) providing a conductive surface on a support; and
4 (b) removably physically mounting the support for the conductive surface to
5 the wireless device, at a predefined distance relative to a wireless signal used by the wireless
6 device, ~~from at least one of any existing external antenna system mounted on and physically~~
7 ~~supported by the wireless device, and any an existing internal antenna system of the wireless~~
8 device, so that when the support is physically mounted to the wireless device, the conductive
9 surface acts as a reflector of a wireless signal produced or received by the wireless device,
10 thereby increasing at least one of the range and the directionality of the wireless signal produced
11 or received by the wireless device, wherein the step of removably physically mounting the
12 support for the conductive surface to the wireless device comprises one of the following steps:

13 (i) removably mounting the support to an existing external antenna that
14 comprises at least a portion of the existing antenna system, where the existing external antenna is
15 directly affixed to and extends from the wireless device, the support being formed so that the
16 conductive surface is disposed at the predefined distance from the existing external antenna when the
17 support is mounted to the existing external antenna; and

18 (ii) coupling the support with a housing of the wireless device, the support
19 orienting a disposition of the wireless device and the existing antenna system relative to the
20 conductive surface, so that the conductive surface is disposed at the predefined distance from the
21 existing antenna system.

22 12. (Currently Amended) The method of Claim 11, further comprising the step of curving
23 the conductive surface in a shape selected so that when the conductive surface is disposed at the
24 predefined distance from ~~the at least one of the existing external antenna system and the existing~~
25 ~~internal~~ antenna system on the wireless device, wireless signals are directed in a desired pattern by
26 the conductive surface.

27 13. (Currently Amended) The method of Claim 11, further comprising the step of extending
28 the conductive surface over an area sufficient in size so that the conductive surface is disposed at the
29 predefined distance from a plurality of antennas comprising the existing ~~external antenna system and~~
30 ~~the existing internal~~ antenna system of the wireless device.

1 14. (Currently Amended) The method of Claim 11, further comprising the step of enabling
2 the support for the conductive surface to mount on and be fully supported by an antenna ~~comprising~~
3 ~~the~~ that is directly connected to a side of the wireless device and which comprises an existing external
4 ~~antenna system~~ of the wireless device, so that the support is cantilevered from the antenna.

5 15. (Currently Amended) The method of Claim 11, further comprising the step of enabling a
6 base of the support for the conductive surface to couple with a the housing of the wireless device, so
7 that the wireless device is supported thereby.

8 16. (Previously Presented) The method of Claim 11, further comprising the step of enabling
9 the support for the conductive surface to be employed to attach the conductive surface and the
10 wireless device to a vertical surface.

11 17. (Currently Amended) The method of Claim 11, further comprising the step of including
12 a director for the wireless signals, said director extending beyond an ~~antenna of the~~ existing external
13 antenna ~~system~~ and being supported by a clip that attaches one of the support for the conductive
14 surface and the director, to the existing external antenna.

15 18. (Original) The method of Claim 11, wherein the predefined distance is equal to about
16 one quarter wavelength of the wireless signal transmitted or received by the wireless device.

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1 19. (Currently Amended) An accessory for use with ~~at least one of an existing external~~
2 ~~antenna system and an existing internal~~ antenna system of a wireless device, the wireless device
3 electronically generating wireless signals for transmission by ~~the at least one of the existing external~~
4 ~~antenna system and the existing internal antenna system~~ and processing wireless signals received by
5 ~~the at least one of the existing external antenna system and the existing internal antenna system~~, the
6 accessory comprising:

7 (a) a conductive surface; and

8 (b) a support having means for removably coupling the conductive surface to a
9 wireless device and maintaining the conductive surface at a predefined distance relative to a
10 wavelength of the wireless signals, from ~~at least one of an existing external~~ antenna system ~~and an~~
11 ~~existing internal antenna system~~ of a wireless device, so that a wireless signal transmitted or received
12 by a wireless device is reflected with at least one of an extended range and a desired directional
13 characteristic, thereby enabling the at least one of the extended range and the desired directional
14 characteristic of a wireless signal transmitted or received by at least one of an existing internal
15 antenna system and an existing external antenna system to be wirelessly enhanced by the accessory,
16 wherein the support is formed and thereby adapted to be removably coupled and physically mounted
17 to a wireless device in a configuration selected from the group consisting of:

18 (i) a first configuration in which the support is adapted to removably
19 mount on and be fully supported by an existing external antenna that comprises the existing antenna
20 system, where the existing external antenna is directly affixed to and extends from the wireless
21 device, in which the support is formed so that the conductive material is disposed at the predefined
22 distance from the existing external antenna when the support is mounted on the existing external
23 antenna; and

24 (ii) a second configuration in which the support is adapted to couple with a
25 housing of a wireless device and to thereby orient a disposition of each of the wireless device, the
26 conductive surface, and the existing antenna system, so that the conductive surface is disposed at the
27 predefined distance from the existing antenna system.

28 20. (Currently Amended) The accessory of Claim 19, wherein the conductive surface is
29 curved to focus a wireless signal relative to ~~at least one of an existing external antenna system and an~~
30 ~~existing internal~~ antenna system of a wireless device.

1 21. (Currently Amended) The accessory of Claim 19, wherein the conductive surface is
2 generally planar and extends over an area sufficient to overlap antennas of an existing ~~external~~
3 ~~antenna system and an existing internal~~ antenna system of a wireless device.

4 22. (Currently Amended) The accessory of Claim 19, further comprising a director that
5 extends opposite the conductive surface, said accessory being supported by a clip that is coupled to
6 ~~an antenna comprising~~ an existing external antenna ~~system~~ of a wireless device, said director
7 providing ~~at least one of~~ at least one enhancement selected from the group consisting of an increased
8 gain, and a desired directional characteristic for a wireless signal produced by a wireless device.

9 23. (Original) The accessory of Claim 19, wherein the support includes at least one bracket
10 for mounting the accessory to a vertical surface.

11 24. (Previously Presented) The accessory of Claim 19, wherein the means for removably
12 coupling the conductive surface to a wireless device include an arm that is shaped to clip to an
13 antenna of an existing external antenna system of a wireless device.

14 25. (Original) The accessory of Claim 19, wherein the means for removably coupling the
15 conductive surface to a wireless device include a bracket having a shape adapted to receive and
16 connect to a housing of a wireless device.

17 26. (Currently Amended) The accessory of Claim 19, wherein the conductive surface is sized
18 and shaped to reflect wireless signals relative to both an existing internal antenna and an existing
19 external antenna of a wireless device.

20 27. (Original) The accessory of Claim 19, wherein the conductive surface comprises a
21 metallic layer on the support.